

KOSA, Sandor

DUO-Monox gas analyzers. Meres automat 9 no.5:151-155 '61.

1. Mechanikai Meromuszerek Gyara.

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000825020016-7

KOSA, Sandor

A new type pneumatic feeding unit; excerpts from an article.
Musz elet. 17 no.26:13 20 D '62.

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000825020016-7"

KOSA, Sandor

A new type pneumatic supply unit. Meres automat 10 no.10;327-328 '62.

1. Mechanikai Meromuszerek Gyara.

KOSA, Sandor

Dilatatory temperature relays. Meres automat 8 no.12:383-384 '60.

1. MMG.

H/005/60/000/002/001/002
B124/B207

AUTHOR: Kósa Somogyi, István

TITLE: Study of the barrier film developing in aluminum oxidation

PERIODICAL: Magyar Kémiai Folyóirat, no. 2, 1960, 51-55

TEXT: The present study deals with the dependence of the anode potential on the thickness of the barrier film, the structure of the barrier film and the mechanism of its growth. The samples were produced in circular shape from 99.96 % Al. A surface of 5 cm² was oxidized. 10 % H₂SO₄ was used as electrolyte. To secure a reliable regulation of the anode temperature, oxidation was accompanied by internal heating (Ref. 2: N. D. Tomashov and A. V. Byalobzheskiy: Trudy Inst. Fiz.-Khim. III. 2. 17. 1951), with only one side of the plate oxidizing, the other, however, being continuously cooled with water. Fig. 1 shows the scheme of the device used. The electrode potential was measured according to the compensation method during the first minutes after the desired current density had been reached. For each individual potential measurement, a

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Study of the barrier...

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new plate which was not yet covered with an oxide layer, was used. The end of the reference electrode capillary which had been cut at an angle of 40° to secure the escape of the gases formed, stood in direct contact with the electrode to be oxidized. A saturated calomel electrode served as reference electrode. The potential drop in the pores is not the source of any error worth mentioning when determining the anode potential. The barrier layer thickness was determined by means of capacitance measurement. V. V. Skorcheletti (Ref. 3: Trudy 2-oy konferentsii po korrozii metallov (Studies of the Second Conference on Corrosion of Metals) 1st volume, 61. 1941. Izd. AN SSSR) and G. V. Akimov and collaborators (Ref. 4: Trudy Vsesoyuznogo soveshchaniya po korrozii i zashchite metallov (Studies of the Fifth Conference on Corrosion and Protection of Metals) 1956. Izd. AN SSSR 209) described this method. The device, which is schematically shown in Fig. 2, consists of a measuring bridge, three resistance boxes and a capacitance box. The current source was a 3Г-10 (ZG-10) sound frequency generator and the zero device a cathode ray oscilloscope of the type 90-7 (EO-7); measurement was made at 1000 cps. The aluminum foils used were oxidized until equilibrium thickness of the barrier layer had been reached. The barrier layer thickness was measured at pH = 5.5 in

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ammonium tartarate. A platinized platinum plate with 30 cm^2 surface was used as polarizing electrode. Fig. 3 shows the polarization curves of aluminum in 10 % H_2SO_4 . The data given in Table 1 show that the ratio between thickness and potential is constant under the given oxidation conditions and approximately equal to 11 A/V. Fig. 4 shows graphically the characteristics of the initial stages of oxidation at a current density of 1 a/ dm^2 . Table 2 provides the values t_0 (time, after which the dissolution rate of the oxide layer at the bottom of the pores is equal to their rate of formation) obtained at different conditions of oxidation. The individual sections of oxide layer growth are shown in Fig. 5. The study was made in 1956 in the Leningrad Technological Institute imeni Lensoveta. There are 6 figures, 3 tables, and 8 references: 4 Soviet-bloc and 4 non-Soviet-bloc. The two references to English-language publications read as follows: M. S. Hunter and P. Fowle: J. Electrochem. Soc., 101, 514, 1954; F. Keller, M. S. Hunter, D. L. Robinson: J. Electrochem. Soc., 100, 411, 1953.

ASSOCIATION: Budapest, M. Tud. Akad. Központi Fizikai Kutató Intézete
(Central Physical Research Institute of the Hungarian
Academy of Sciences, Budapest)

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18(7)(2) 21.1320

6650
HUN/8-60-1/2-25/33

AUTHOR: Kósa Somogyi, István, Candidate of Chemical Sciences

TITLE: The Corrosion¹⁰ of Metallic Structural Materials of Nuclear Reactors ¹⁰

PERIODICAL: Energia és Atomtechnika, 1960, Nr 1-2, pp 69-74

ABSTRACT: The article deals with the theoretical aspects of the corrosion of metallic structural materials of nuclear reactors. The effect of radiation on aqueous solutions, gases and solids, and the effect of liberated decay products and energy are described. F.S. Dainton suggested that in the determination of the redox characteristics of the most active decay products, an approximately 0.95-v average potential value should be used. M.A. Proskurnin shows that there are exceptions, and this value should be used only with discretion, and even then only in connection with homogeneous redox systems. C.I. Zalkind and his colla-

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HUN/8-60-1/2-25/33

The Corrosion of Metallic Structural Materials of Nuclear Reactors

borators observed the effect of radiation on wet batteries made of different metal pairs and electrolytes. They concluded that the electrodes do not have an equal interexchange with the macroscopic homogenous decay products, but one of them reacts chiefly with reducing, the other with oxidizing components. A.V. Eyalobzheskiy's experiments have shown, that in moist air the corrosion of Fe, Cu, Zn and Al is speeded up when exposed to fast electrons, to x-ray or γ radiation, if the energy absorbed by the air is not less than 10^{14} ev/l. No corrosion was observed when the intensity of the radiation exceeded 10^{19} ev/cu cm sec. No noticeable transformation was observed in N_2 , and the corrosion observed in O_2 was smaller than that in air. I.I. Karobkov and his collaborators investigated the formation of oxide layers on Zr-alloys in reactors. P.C. Ambartsumyan and his collaborators investigated the corrosion of some Zr-alloys (Table 1). The Ta-Zr and the Zr-W alloys were found corrosion-

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The Corrosion of Metallic Structural Materials of Nuclear Reactors

resistant up to 350°C completely, at 400°C for 6,000-8,000 hours and above 450°C for 2,500 hours. The best Nb-Zr alloy, containing 1% Nb, was corrosion-resistant at 480°C for 6,000 hours. The properties of the "ozsennit" alloy were found to be similar, and at 450°C even better than those of the "Zircaloy". Presence of Al, Ti and over 0.25% Si was found disadvantageous, as opposed to Fe and Ni. In the opinion of N.D. Tomashov and G.P. Chernova, the corrosion resistance of stainless steels can be increased considerably by adding a small amount of Pt, Pd or Cu. Soviet scientists have investigated some Mg-Be alloys, which have shown very good corrosion resistance in high-temperature gases. There is 1 table and 22 references, 10 of which are English,

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KOSA SOMOGYI, Istvan

Tracers in technology. Elet tud 15 no.7:211-214 14 F '60.

1. Kozponti Fizikai Kutato Intezet tudomanyos kutatoja.

S/262/62/000/012/001/007
1007/1207

AUTHORS: Kiss,I., Kosa-Somogyi, I., and Szabo,Inna.

TITLE: Organic moderators

PERIODICAL: Referativnyy zhurnal, otdel'nyy vypusk.42.Silovyye ustyanovki,no.18,1962,
15, abstract. 42.18.62 (Kernenergie, no.12; 1961,905-912 [German])

TEXT: The properties are described of organic substances and their mixture for use as moderators and coolants in nuclear reactors. Compared with water, organic compounds have many advantages: high boiling, noncorrosiveness, reduced reactivity, reduced cross section for neutron absorption, and a high moderating capacity. Their main disadvantage is their tendency to decompose under the action of radiations. The resistance of polyphenyls can be increased by the addition of inhibitors. The paper brings a table of the nuclear-physical properties of diphenyl, isopropylidiphenyl, santowax, diphenyldowtherm, as well as the results of some investigations of these substances. Analysis is made of methods for reducing the radiolysis of polyphenyls by the addition of inhibitors, and of the mechanism of this process. Soviet and U.S. investigations show that in certain inhibitors the action range of the molecule may

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Organic moderators...

extend up to 100 Å. Experimental methods are described for the radiochemical investigations of organic compounds, and static and dynamic methods are outlined. In the experimental study of the behavior of such substances in a radiation field. In the static method, a sample of the compound, enclosed in an ampoule, is subjected to radiation. In the dynamic (or "loop") method, the investigation is conducted in a special unit composed of a pump, evaporators, cooling system, radiation zone, pipe lines and measuring instruments. The compound to be investigated is subjected to radiolysis while passing through the radiation zone, and the resulting products are investigated in a closed cycle or by sample analyses. It is suggested to carry out dynamic investigations directly in the nuclear reactor. The analysis of the decomposition products is by various methods, in particular, by polarographic and fluorescent techniques. A detailed description is given of the paramagnetic-resonance methods used in the investigations. Despite a corrosion resistance of most materials immersed in organic coolants, certain metals such as zirconium or magnesium are liable to corrode as a result of the hydride formation. The study of corrosion process in organic

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Organic moderators...

coolants is complicated by the superimposing action of radiations. There are 119 references. [Abstracter's note: Complete translation.]

Card 3/3



KOSA Somogyi, Istvan

Investigation of some electrode processes in radiated aqueous
solution. Koz fiz kozl MTA 9 no. 3:141-149 '61.

1. Magkemia I. Laboratorium.

KISS, Istvan; KOSA-SOMOGYI, Istvan; SZABO, Elekne

Organic materials as reactor moderators. Energia es atom 14 no.10:
454-462 O '61.

1. Kozponti Fizikai Kutato Intezet, Magkemia I. Laboratorium.

(Organic compounds) (Nuclear reactors)

KOSA SOMOGYI, Istvan

Attention! Radiation danger! Elet tud 16 no.15:472-474 9 Ap '61.

KOSA SOMOGYI, Istvan

Nuclear sources of currents. Elet tud 17 no.45:1418-1421 11 N
'62.

KOSA-SOMOGYI, Istvan; KISS, Istvan, dr.; SCHILLER, Robert

The pH-dependence of radiolytic processes in dichromate solutions.
Acta chimica Hung 33 no.2:143-151 '62.

1. Central Research Institute for Physics of the Hungarian Academy of Sciences, Budapest 114, Postaflock 49.

KOSA SOMOGYI, Istvan

Inhibition and catalysis in radiation chemistry. Energia es
atom 16 no.2:86-95 F '63.

1. Kozponti Fizikai Kutato Intezet Magkemia I.Laboratorium.

KOSA-SOMOGYI, Istvan (Budapest, XII., Konkoly Thege ut)

Investigations of some electrode processes in irradiated aqueous solutions. Acta chimica Hung 35 no.1:85-93 '63.

1. Laboratoire de Chimie Nucléaire I., Institut Central de Recherche de Physique de l'Academie Hongroise des Sciences, Budapest.

KOSA SOMOGYI, Istvan; VIZESY, Maria

Phosphorescence of FeCl_3 containing dimethylaniline irradiated at low temperature. Koz fiz kozl MTA 12 no.4:287-297 '64.

1. Central Research Institute of Physics, Hungarian Academy of Sciences, Budapest.

KOSA SOMOGYI, Istvan

Separation and purification by heating and cooling. Elet tud
19 no.47:2244-224 20 S '64.

KOSABEK, J.

TECHNOLOGY

periodicals: INSENYRSKE STAVBY Vol. 7, no. 3, Mar. 1959

KOSABEK, J. A new type of tower cranes for building purposes.
(Supplement) p. 25.

Monthly List of East European Accessions (EEAI) LC Vol. 8, no. 5
May 1959, Unclass.

KOSAECI, Juraj, inz. (Brezno)

The MR tilting crane. Inz stavby: Suppl. Mechanizace no. 5:72-
74 1963.

KOSABEK, J.

Undercarriages for tower building cranes travelling in an arc of a small radius. (Supplement) p. 105.

INZENYRSKE, STAVEBY. (Ministerstvo stavebnictvi) Praha, Czechoslovakia. Vol. 7, no. 9, Sept. 1959.

Monthly List of East European Accessions (EEAI) LC Vol. 8, no. 11, Nov. 1959
U.scl.

KOSABEK, Juraj, inz.

New ZPO-5 crane. Inz stavby 11 no.10:Supplement!Mechanizace
no.10:153-155 '63.

1. Mostaren Brezno.

KOSABEK, Juraj, prof. inz.

The MB 120 climbing crane. Inz stavby 13 no.3: Suppl: Mechanizace
no.3:29-33 '65.

1. Chair of Cranes and Conveying Equipment of the Higher School
of Technology, Kosice.

EXCERPTA MEDICA Sec.17 Vol.4/1 Public Health,etc. Jan58
KOSACH, A. K.

45. KOSACH A. K. *The therapeutic and prophylactic treatment of Sovkhoz workers and their families (Russian text)* Zdrav. Belorussii 1956, 8 (55-57)
Annual prophylactic examination of workers is carried out in the Sovkhozes

KOSACH, Aleksandr Konstantinovich; KHATS'KO, Boris Antonovich;
BUROV, A., red.; KHOREVSKIY, V., tekhn.red.

[Nesvizh; brief sketch of the city and sanatorium] Nesvizh;
kratkii ocherk o gorode i sanatori. Minsk, Gos.izd-vo BSSR,
Red.sotsial'no-ekon.lit-ry, 1959. 43 p. (MIRA 13:4)
(NESVIZH--HISTORY) (NESVIZH--SANATORIUMS)

KOSACH, A.K.

N.A. Semashko, a major organizer of the Soviet public health system.
Zdrav. Bel. 5 no.5:61-62 My '59. (MIRA 12:8)
(SEMASHKO, NIKOLAI ALEKSANDROVICH, 1874-1949)

KOSACH, A.K.

Promote the organizational work of the chief district physician.
Zdrav. Belor. 6 no.3:9-11 Mr '60. (MIRA 13:5)
(PUBLIC HEALTH, RURAL)

KOSACH, A.K.

Problems of workers' health protection in the project of the
new program of the CPSU. Zdrav. Bel. 7 no.10:3-9 0 '61.
(MIRA 14:11)
(INDUSTRIAL HYGIENE) (COMMUNISM)

KOSACH, A.K.

Z.P.Solov'ev one of the pioneers in Soviet public health. Zdrav.Bel.
7 no.11:61-62 N '61. (MIRA 15:11)
(SOLOV'EV, ZINOVII PETROVICH, 1876-1928)

KOSACH, Aleksandr Konstantinovich; KHATS'KO, B.A.

[Nesvizh; a brief sketch] Nesvizh; kratkii ocherk. 2. dop.
izd. Minsk, Gosizdat BSSR, 1962. 64 p. (MIRA 16:4)
(Nesvish--Description)

SUB CODE: 13/ SUBM DATE: 24Jul63/

Card APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825020016-7
Date: 621.869.447-82919

KOSACH, G.A. (Aprelevka, Moskovskoy oblasti, ul. Aprelevskaya d.50)

Postoperative period in patients with a sluggish course of rheumatic carditis following operations for mitral stenosis.

Grud. khir. 6 no.4:25-30 Jl-Ag '64. (MIRA 18:4)

1. Kafedra serdechno-sosudistoy khirurgii (zav. - prof. S.A. Kolesnikov) TSentral'nogo instituta usovershenstvovaniya vrachey i Institut serdechno-sosudistoy khirurgii (dir. - prof. S.A. Kolesnikov) AMN SSSR, Moskva.

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000825020016-7

TERESHKO, Yu.D.; KOSACH, V.D.

Mercury slip ring. Izm. tekhn. no.5&15 ,My^t64 (MIRA 1787)

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000825020016-7"

KOSACH, Ye.I., assistant

Use of the vacuum extractor in obstetrics. Zdrav. Bel. 7 no.3:
33-36 Mr '61. (MIRA 14:3)

1. Iz akushersko-ginekologicheskoy kliniki (zaveduyushchiy - prof.
I.M.Starovoytov), Minskogo meditsinskogo instituta.
(OBSTETRICS—EQUIPMENT AND SUPPLIES)

KOSACHENKO, A. A.

KOSACHENKO, A. A. "Group Techniques for Adjusting a Triangulation Using the Method of Nominal Measurements." Author's abstract of a dissertation submitted at Omsk Agricultural Inst imeni S. M. Kirov. Omsk, 1956. (Dissertation for the Degree of Candidate in Technical Science)

So: Knizhnaya Letopis', No. 19, 1956.

KABLASHOV, A.V., gornyy inzh.; KOUZHNEKO, A.A., gornyy inzh.

Experience in using the KTU support at the "Tom-Uss 1-2" mine.
UgcJ! 40 no.5:59-61 My '65. (MIRA 18:6)

1. Shakhta "Tomusinskaya 1-2".

KOSACHEV, A.N., assistent

Case of Ewing's sarcoma of the upper jaw. Stomatologija 41
no. 8:95-96 S-0 '62.
(MIRA 16:4)

1. Iz kafedry khirurgicheskoy stomatologii (zav. A.M.Nikandrov)
Omskogo meditsinskogo instituta (rektor - dotsent L.G.Makarov).
(JAWS—CANCER)

NIKANOROV, A.M.; KOSACHEV, A.N.

Three cases of fibroma of the maxillary sinus. Stomatologija 42
no.2:103-104 Mr-Ap'63 (MIRA 17:3)

1. Iz kafedry khirurgicheskoy stomatologii (zaveduyushchiy
A.M.Nikandrov) Omskogo meditsinskogo institutaimeni M.I.
Kalinina.

KOSACHEV, G.G.

Economic efficiency of the universalization of agricultural machinery. Biul. tekhn.-ekon. inform. Gos. nauch.-issl. inst. nauch. i tekhn. inform. 17 no.4:58-60 Ap '64. (MIR 17:6)

KOSACHOV, N. N., Engr. Cand. Tech. Sci.

Dissertation: "Investigation of the Basic Calculating Elements of Rock Breaking by Explosion with Chamber Charges in Open Pits." Inst of Mining, Acad Sci USSR, 23 May 47.

SO: Vechernaya Moskva, May, 1947 (Project #17836)

~~KOSACHEV, M.N., kandidat tekhnicheskikh nauk, redaktor; SIL'VESTROVICH,
S.I., nauchnyy redaktor; GRINBERG, I.F. [deceased], redaktor;
LYUDKOVSKAYA, N.I., tekhnicheskikh redaktor.~~

[Blasting; collection of articles] Vzryvnye raboty; sbornik
statei. Moskva, Gos. izd-vo lit-ry po stroitel'nym materialam,
1954. 82 p.
(Blasting) (MLRA 7:12)

NOVIKOV, Viktor Aleksandrovich; SONIN, Boris Aleksandrovich; KOSACHEV, M.N.,
kand.tekhn.nauk; GOMOZOVA, N.A., tekhn.red.

[Parameters of mass blasts; practices of quarries of the Trust of the
State All-Union Association for the Mining and Enrichment of Asbestos
and for the Production of Asbestos Products] Parametry massovykh
vzryvov; opyt kar'erov tresta "Societasbest." Moskva, Gos. izd-vo lit-ry
po stroit. materialam. 1957. 99 p. (Vsесоiuznyi nauchno-issledovatel'skii
institut' asbestos cementnykh izdelii. Trudy, no.6)

(MIRA 11:9)

(Blasting) (Asbestos)

SOV/127-59-1-17/26

AUTHOR: Kosachev, M. N., Candidate of Technical Sciences, Learned
Secretary

TITLE: To Accelerate the General Introduction of Short-Delayed
Blasting in Mines (Uskorit' shirokoye vnedreniye korot-
kozamedlennogo vzryvaniya na rudnikakh)

PERIODICAL: Gornyy zhurnal 1959, Nr 1, p 59 (USSR)

ABSTRACT: The Interdepartmental Commission on Blasting at the Institute
of Mining Engineering of the AS USSR and the All-Union Scien-
tific Technical Mining Society organized a conference on the
26-28 November 1958 in Moscow. Problems of short-delayed
blasting were discussed. The following basic problems were
fixed: 1) determining the peculiarities and regularities
of rock demolition by short-delayed blasting; a precise de-
finition of the percussion action of explosion gases and
their reciprocal action; 2) fixing the optimum parameters
and delays in blasting of the charges in relation to the
strength of the rock, the magnitude of the linear resistance
of rocks surmounted by the blasting charge and other factors;

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To Accelerate the General Introduction of Short-Delayed Blasting in Mines SOV/127-59-1-17/26

3) elaboration of technically substantiated requirements for electrical detonators and cap detonators; and 4) a scientific generalization of industrial and experimental experience in short-delayed blasting.

ASSOCIATION: Mezhdunarodnaya komissiya po vzryvnomu delu pri Institute gornogo dela AN SSSR (The International Commission on Blasting at the Institute of Mining Engineering of the AS USSR).

Card 2/2

KOSACHEV, M. N.

ALATORTSEV, S.A., prof., doktor tekhn.nauk; ANDREYEV, A.V., kand.tekhn.
nauk; ANCHAROV, I.L., inzh.; BALINSKIY, S.I., inzh.; BELOUSOV,
V.G., inzh.; VINNITSKIY, K.Ye., kand.tekhn.nauk; VLASOV, V.M.,
inzh.; VORONTSOV, N.P., kand.tekhn.nauk; GIPSMAN, M.K., inzh.;
GLUZMAN, I.S., kand.tekhn.nauk; GUR'YEV, S.V., kand.tekhn.nauk
[deceased]; DEMIN, A.M., kand.tekhn.nauk; YEGURNOV, G.P., kand.
tekhn.nauk; YEFIMOV, I.P., inzh.; ZHUKOV, L.I., kand.tekhn.
nauk; ZEL'TSER, N.M., inzh.; KOSACHEV, M.N., kand.tekhn.nauk;
KOTOV, A.F., inzh.; KUDINOV, G.P., inzh.; LAPOVENKO, N.A., kand.
tekhn.nauk; MAZUROK, S.F., inzh.; MEL'NIKOV, N.V.; MUDRIK, N.G.,
inzh.; MIKONOV, G.P., kand.tekhn.nauk; ORLOV, Ye.I., inzh.;
POTAPOV, M.G., kand.tekhn.nauk; PRISEDSKIY, G.V., inzh.;
RZHEVSKIY, V.V., prof., doktor tekhn.nauk; RYAKHIN, V.A., kand.
tekhn.nauk; SIMKIN, B.A., kand.tekhn.nauk; SITNIKOV, I.Ye., inzh.;
SOROKIN, V.I., inzh.; STASYUK, V.N., kand.tekhn.nauk; STAKHEVICH,
Ye.B., inzh.; SUSHCHANKO, A.A., inzh.; TYUTIN, I.F., inzh.;
TYMOVSKIY, L.G., inzh.; FISENKO, G.L., kand.tekhn.nauk; FURMANOV,
B.M., inzh.; SHATAYEV, M.G., inzh.; SHESHKO, Ye.F., prof., doktor
tekhn.nauk; TERPIGOREV, A.M., glavnnyy red. [deceased];

(Continued on next card)

ALATORTSEV, S.A.---(continued) Card 2.

KIT, I.K., zamestritel' glavnogo red.; SHESHKO, Ye.P., zamestritel'
otv.red.; BUGOSLAVSKIY, Yu.K., red.; BYKHOVSKAYA, S.N., red.;
DIONIS'YEV, A.I., kand.tekhn.nauk, red.; KOZIN, Yu.V., red.;
SOKOLOVSKIY, M.M., red.; YASTREBOV, A.I., red.; DEMIDYUK, G.P.,
kand.tekhn.nauk, red.; KRIVSKIY, M.N., kand.tekhn.nauk, red.;
LYUBIMOV, B.N., inzh., red.; MOLOKANOV, P.L., inzh., red.; REISH,
A.K., inzh., red.; RODIONOV, L.Ye., kand.tekhn.nauk, red.; SEL-
VUTSKIY, S.O., inzh., red.; TRAKHMAN, A.I., inzh., red.; TRYMOV-
SKIY, L.G., inzh., red.; FINELEV, A.S., doktor tekhn.nauk, red.;
SHUKHOV, A.N., kand.tekhn.nauk, red.; TER-IZRAEL'YAN, T.G., red.
izd-va; PROZOROVSKAYA, V.L., tekhn.red.; KONDRAT'YEVA, M.A.,
tekhn.red.

(Continued on next card)

ALATORTSEV, S.A.---(continued) Card 3.

[Mining; an encyclopedic dictionary] Gornoe delo; entsiklo-pedicheskii spravochnik. Glav.red.A.M.Terpigorev. Chleny glav. red.A.I.Baranov i dr. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu. Vol.10. [Mining coal deposits by the open-cut method] Razrabotka ugol'nykh mestorozhdenii otkrytym sposobom. Redkollegia toma; N.V.Mel'nikov i dr. 1960. 625 p.

(MIRA 13:2)

1. Chlen-korrespondent AN SSSR (for Mel'nikov).
(Coal mines and mining) (Strip mining)

KOSACHEV, M.N., kand.tekhn.nauk

Discussing practices in the organization of boring and
blasting operations. Shchkt.stroi. 4 no.9:32 S '60.
(MIRA 13:8)

(Mining engineering)

KOSACHEV, M.M., sind.te'tor.nauk

Supplying mines with highly effective explosives. Gor,zhur. no.6:
3-5 Je '60. (MIRA 14:2)

1. Mezhduredonstvennaya komissiya po vzryvnому delu, Sverdlovsk,
(Explosives) (Mining engineering--Equipment and supplies)

KOSACHEV, M.N.

Coordination conference on blasting operations. Ugol' 35 no.2:62
F '60. (MIRA 13:5)
(Blasting--Congresses) (Mining research)

KOSACHEV, M.N.

Results of the Coordinating Conference on Research in the
field of Blasting. Izv. vys. ucheb. zav.; tsvet. met. 3 no.3:162-
163 '60. (MIRA 14:3)

Blasting—Congresses)

KOSACHEV, M.N., kand.tekhn.nauk

Blasting terminology. Nauch.sooob.Inst.gor.dela 7:142-145 '61.
(MIRA 15:1)
(Blasting---Terminology)

KOSACHEV, M.N., kand.tekhn.nauk

Studying the causes and prevention of the burning out of explosive charges in bore holes. Ugol' Ukr. 5 no.11:46-47 N '61.

(MIRA 14:11)

(Coal mines and mining--Safety measures) (Blasting)

KOSACHEV, M.I.

Conference on the enforcement of safety measures in blasting operations. Ugol' 36 no.6:61-62 Je '61. (MRA 14:7)
(Blasting)
(Coal mines and mining--Safety measures)

KOSACHEV, M.N., kand.tekhn.nauk

Hazards caused by stray currents in connection with blasting operations. Ugol' Ukr. 6 no.1:46-47 Ja '62. (MIRA 15:2)
(Electricity in mining--Safety measures)
(Blasting)

KOSACHEV, M.N., kand.tekhn.nauk

Coordination of research on blasting. Nauch. soob. IGD 17:167-169
'62. (MIRA 16:7)

1. Zamestitel' predsedatelya Mezhdunovdomstvennoy komissii po
vzryvnому delu.

(Blasting)

KOSACHEV, M. N.

Uniform classification of industrial explosives and means of
electrical blasting. Ugol' 38 no. 6:58-59 Je '63. (MIRA 16:8)

1. Mezhdunovestvennaya komissiya po vzryvnому delu.
(Explosives—Classification)
(Detonators—Classification)

KOSACHEV, M.N.

Unified classification of commercial explosives and means
of electric detonation. Gor. zhur. no.7:77-78 Jl '63.
(MIRA 16:8)

1. Mezhdunarodnaya komissiya po vzryvnому delu.

VISHNEVSKIY, Aleksandr Apollinar'yevich, prof., doktor ekon.nauk;
KOKOSHKO, A.G., red.; KOSACHEV, V.M., red.

[Development of telecommunication in the U.S.S.R.] Razvitiye
sviazi v SSSR. Moskva, Izd-vo VPSh i AON pri TsK KPSS, 1960.
69 p. (MIRA 13:12)
(Telecommunication)

KOSACHEV, Vladimir Matveyevich, kand.ekonom.nauk; PROKOP'YEV, S.,
red.; IORYSH, A., red.; KOROLEVA, A., mladshiy red.;
ULANOVA, L., tekhn.red.

[Socialist competition and labor productivity] Sotsialisti-
cheskoe sorevnovanie i proizvoditel'nost' truda. Moskva,
Izd-vo sotsial'no-ekon.lit-ry, 1961. 153 p.

(MIRA 15:5)

(Socialist competition)
(Labor productivity)

KOSACHEVA, A. F.

4661. KOSACHEVA, A. F. Kak my poluchili s kazhdogo gektara urozhay fruktov 88 tserov i 108, 7 tsentnera vinsgrada. (plodovyy sovkhoz №. 2. krasnodarskogo kraja. m., izd-vo m-va sovkhozov sssr, 1954.) 12s. s. ill. 20sm. (glav. upr. s-kh. propagandy n-ve sovkhozov sssr. poyt uchastnikov vystavki - usem sovkhozam). 15.000 ekz. bespl. - (55-521)p 634.1/8ct (47.893)

SO: Letopis' Zhurnal' nykh Statey, Vol. 7, 1949

KOSACHEVA, A. P.

Etiology, clinical aspect and therapy of acute retro-pharyngeal abscesses in children. Vest. otorinolar.,
Moskva 13 no.4:56-58 July-Aug 1951. (CIML 21:1)

1. Of the Otolaryngological Clinic for Children (Head -- Honored Physician RSFSR Docent F. F. Malomuzh), Central Scientific-Research Institute of Otorhinolaryngology (Director -- Honored Worker in Science Prof. V. K. Trutnev) located at Children's Hospital imeni Dzerzhinskogo.

KOSACHEVA, A. P.

USSR/Medicine - Penicillin

Jan/Feb 52

"The Question of Penicillin Distribution in the Spinal Fluid," A. P. Kosacheva, Children's Div., Cent Sci Res Inst for Otorhinolaryngol, Min of Pub Health RSFSR, Children's Hosp in Dzerzhinsk

"Vest Oto-Rino-Laringol" Vol XIV, No 1, p 79

Author studied the distribution of penicillin after postoperative endolumbar injection in the spinal fluid of 2 children suffering from liquoritis. In order to det the quantity of penicillin in the spinal fluid during the course of treatment the effect on the diam of a

USSR/Medicine - Penicillin (Contd)

Jan/Feb 52

streptococcus culture was measured. In correlating this quantity with clinical symptoms in the 2 cases, one of which took a fatal course, author came to the conclusion that children are very sensitive to this method of penicillin administration. One child had received two 20,000-unit doses, the other a dose the amt of which was not stated.

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KOSACHEVA, A. P.

KOSACHEVA, A. P. -- "Clinical-Anatomic Aspects of Acute Post-Pharyngeal Abscesses in Children." Min Health RSFSR. Moscow Medical Stomatological Inst. Moscow, 1955. (Dissertation for the Degree of Candidate of Medical Sciences.)

SO: Knizhnaya Letopis', No 5, Moscow, Feb 1956

KOSACHEVA, A.P.

Lymph drainage paths from the pharyngotympanic tube and their connection with the retropharyngeal lymph nodes. Trudy gos. nauch.-issl.inst.ukha, gorla i nosa. 6:324-329 '55.

(MIRA 12:10)

1. Iz otdela morfologii (zav. - prof.G.F.Ivanov) i iz klinicheskogo otdeleniya bolezney ukha, gorla i nosa detey (zav. - dots. F.J.Malomuzh) Gosudarstvennogo nauchno-issledovatel'skogo instituta ukha, gorla i nosa.

(LYMPHATICS) (MUSTAGHIAN TUBE)

MALOMUZH, F.F.; KOSACHEVA, A.P.; LUNEVA, A.S.; AMIROV, R.Z.; BUREVA, V.B.;
MARKOVA, V.I.; FEDOROVA, V.A.

Pathogenesis of acute and chronic otitis in children. Trudy
gos. nauch.-issl. inst. ukha, gorla i nosa no.11:199-206
'59. (MIRA 15:6)

1. Iz klinicheskogo otdeleniya detskogo vozrasta Gosudarstvennogo
nauchno-issledovatel'skogo instituta ukha, gorla i nosa.
(EAR--DISEASES)

MOHACSI, Laszlo, dr.; KOSA, Csaba, dr.

Muscular relaxation with curare combined with glycerin-guaiacol-ether.
Magy. sebeszet 14 no.2:101-105 Ap '61.

1. A debreceni Orvostudomanyi Egyetem I. sz. Sebeszeti klinikajának
kozleménye. Igazgató: Szeleczky Gyula dr. egyetemi tanár.

(CURARE ther) (GUAIACOL ther) (GLYCERIN ther)
 (ETHER ETHYL ther)

KOSACHEVA, V.; LESHCHENKO, V.

Rapid method for determining the moisture content of raw feather and down materials. Mias.ind. SSSR 33 [i.e.34] no.2:54-55 '63.
(MIRA 16:4)

1. Krasnodarskiy nauchno-issledovatel'skiy institut pishchevoy promyshlennosti.
(Moisture—Measurement)

KOSACHEVA, V.V.

Is it possible to lengthen the keeping time of canned food for
children? Kons.i ov.prom. 18 no.1:12-15 Ja '63.

(MIRA 16:2)

1. Krasnodarskiy nauchno-issledovatel'skiy institut pishchevoy
promyshlennosti.
(Food, Canned—Preservation)

KOSACHEVA, V.V.; SERDUYK, L.O.

Rapid method of fat extraction in testing canned food for children.
Kons. i ov.prom. 17 no.4:29-31 Ap '62. (MIRA 15:3)

1. Krasnodarskiy nauchno-issledovatel'skiy institut pishchevoy
promyshlennosti. (Food, Canned--Testing)

KOSACHEVA, V.V.

Device for quantitative determination of air in food products.
Izv.vys.ucheb.zav.; pishch. tekhn. no.6:141-144 '61. (MIRA 15:2)
1. Krasnodarskiy nauchno-issledovatel'skiy institut pishchevoy
promyshlennosit. (Food—Analysis)

KOSACHEVA, V.V.

Changes in the coloring of an alcoholized strawberry juice.
(MIRA 16:12)
Spirt. prom. 29 no.7:21-23 '63.

1. Krasnodarskiy nauchno-issledovatel'skiy institut pishchevoy
promyshlennosti.

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ACCESSION NR: AP5019511

UR/0330/65/000/007/0036/0039

664.614.31

3
B

AUTHOR: Kosachëva, V. V. (Senior research associate)

TITLE: Chemical and technical control of the production of green pea and sweet corn preserves

SOURCE: Konservnaya i ovoshchessushch'naya promyshlennost', no. 7, 1965, 36-39

TOPIC TAGS: green pea canning, sweet corn canning, food production control

ABSTRACT: A study was made to determine the characteristics which reflect the quality of raw material and finished products: content of amino-acids, crude and dry substances, etc., in green pea, sweet corn, and their products. The results of the study will be used to improve the quality of the products. The author's recommendations for the chemical and technical control of the production of green pea and sweet corn at the Krymskii Konservnyy kombinat (Auygeyskiy Canning Combine) during 1964 are given. On a line producing sweet corn at the canning combine in Krymsk were conducted physicochemical controls of the quality of the raw materials and of the raw and finished products. The results of the study made it possible to draw a flow chart (given in the article) for the chemical and technical control of the production of green pea and sweet corn preserves for use in industry.

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REF ID: A6015

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000825020016-7"

D'YAKOVA, R.M., dotsent; ZUZANOVA, V.I., prof.; LITVINENKO, A.G.
[Lytvynenko, A.H.]; PESNYACHEVSKAYA, G.D. [Pisniachevs'ka,
H.D.]; BESONOVA, M.M., prof.; BELYI, O.F. [Bielyi, O.F.];
PRIMAKOV, S.V.; YUNKO, M.A.; GOL'DIS, S.N. [Hol'dis, S.N.];
BARAN, M.A.; KOSACHEVSKAYA, P.I. [Kosachevs'ka, P.I.], dotsent;
SHTAN'KO, L.V.; GAGARINOV, V.S. [Naharynov, V.S.]

Annotations and author's abstracts. Ped. Akush. i gin. 24
no. 6: 33-36 '62.
(MIRA 17:4)

1. Kafedra pediatrii Zaporozhskogo instituta usovershenstvovaniya vrachey (for D'yakova).
2. Kafedra pediatrii Odesskogo meditsinskogo instituta (for Zuzanova).
3. Klinika infektsionnykh bolezney Odesskogo meditsinskogo instituta (for Litvinenko).
4. Kafedra detskikh infektsionnykh bolezney Khar'kovskogo meditsinskogo instituta (for Pesnyachevskaya).
5. Klinika detskikh infektsionnykh bolezney Krymskogo meditsinskogo instituta (for Bezsonova).
6. Kafedra fakul'tetskoy pediatrii Krymskogo meditsinskogo instituta (for Belyy).
7. Shakhternaya bol'nitsa g. Bokovo-Antrasit (for Primakov).
8. Starosamborskaya rayonnaya bol'nitsa L'vovskoy oblasti (for Yunko).
9. Vinnitskaya detskaya bol'nitsa No.2 (for Gol'dis).
10. Kafedra gigiyeny Kiyevskogo instituta usovershenstvovaniya vrachey (for Baran, Kosochevskaya).
11. Kafedra urologii Kiyevskogo meditsinskogo instituta (for Shtan'ko).
12. 9-ya gorodskaya bol'nitsa g. Dneprodzerzhinsk (for Gagarinov).

Card
KOSACHEVSKAYA, P. I.: Master Med Sci (diss) -- "The hygienic principles of
normatives for the temperature and humidity of the air in the basic parts of
baths (the wash room, the dressing room, the steam room)". Leningrad, 1958.
14 pp (Min Health RSFSR, Leningrad Sanitary=Hygiene Med Inst) (KL, No 6, 1959,
144)

KOSACHEVSKAYA, P.I.

Establishing a desirable standard of heat and moisture for baths.
Gig. i s n. 23 no.1:71-73 Ja '58. (MIRA 11:2)

1. Iz Ukrainskogo instituta kommunal'noy gigiyeny
(BALNEOLOGY)
temperature & humidity in public bath houses)
(HUMIDITY, determ.
in public bath houses)
(TEMPERATURE, determ.
same)

BARAN, M.A., dotsent, kand.med.nauk; KOSACHEVSKAYA, P.I. [Kosachevs'ka,
P.I.], vrach; MOKREYEVA, M.G. [Mokriev, M.H.], dotsent, kand.
med.nauk

To keep both the body and the soul young. Nauka i zhyttia 11
no.1:39-41 Ja '61. (MIRA 14:3)
(HYGIENE)

BARAN, M.A.; KOSACHEVSKAYA, P.G. [Kosachevs'ka, P.H.]; TROTSKIY, Yu.A.
[Trots'kiy, Iu.A.]

Save the vitamin "C" in food. Nauka i zhystia 11 no.2:33 F '61.
(MIRA 14:3)

(ASCORBIC ACID)

BARAN, M.A., dots., kand.med.nauk; KOSACHEVSKAYA, P.G. [Kosachevs'ka, P.H.],
assistant; TROTSKIY, Yu.A. [Trots'kyi, Iu.A.], dots., kand.med.nauk

Care of the skin. Nauka i zhyttia 11 no.2:33 P '61. (MIRA 14:3)
(SKIN-CARE AND HYGIENE)

PETROV-MASLAKOV, M.A., prof.; KOSACHEVSKIY, A.A., kand.med.nauk

Effect of diagnostic x rays used during pregnancy on the subsequent development of children. Akush.i gin. 35 no.5:3-7 S-O '59.
(MIRA 13:2)

1. Iz kafedry akusherstva i ginekologii (zaveduyushchiy - prof. M.A. Petrov- Maslakov) Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta i rentgenovskogo otdeleniya Rodil'nogo doma imeni prof. V.F. Snegireva (glavnnyy vrach A.A. Dodor).
(RADIATION EFFECTS, in pregnancy)
(FETUS, radiation effects)

KOSACHEVSKIY, Aleksandr Abramovich; GANELIN, Lev Izrailevich;
EPSHTEYN, M.M., red.; KIMMEL', L.S., red.izd-va;
KARLOVA, G.L., tekhn. red.

[Organization and technique of lumber marketing] Organizatsiia
i tekhnika lesosbytovoi raboty. Moskva, Goslesbumizdat,
1962. 257 p. (MIRA 16:4)
(Lumber trade)

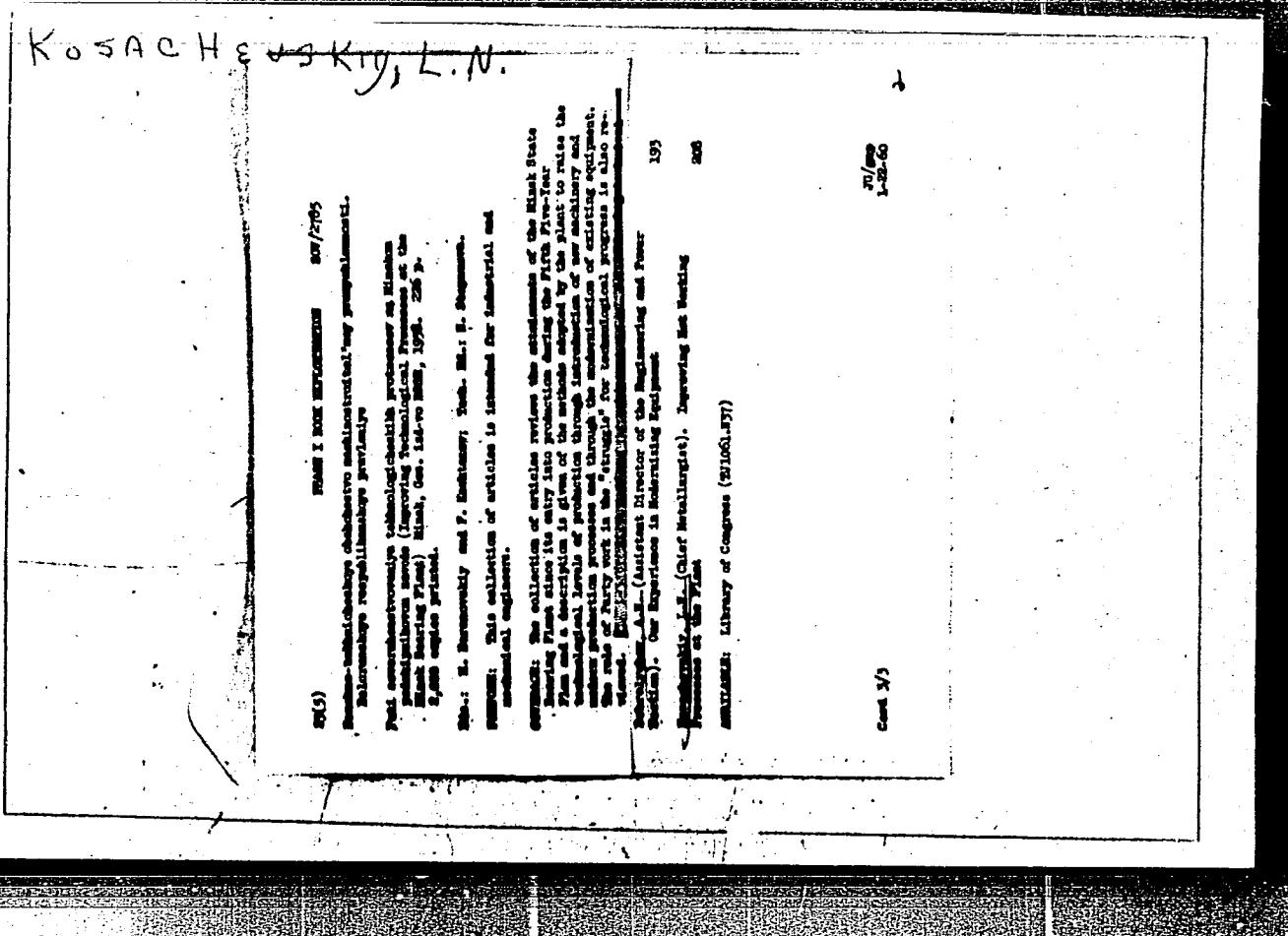
KOSACHEVSKIY, L.Ya. (Donetsk)

Reflection of magnetoacoustic waves on the interface of two
media of finite electroconductivity. Prikl. mat. i mekh. 29
no.2:357-361 Mr-Ap '65.
(MIRA 18:6)

KOSACHEVSKIY, L. YA., CAND PHYS-MATH SCI, "CERTAIN
PROBLEMS OF PROPAGATION OF ELASTIC WAVES IN TWO-COM-
ONENT MEDIA" KHAR'KOV, 1961. (MIN OF HIGHER AND SEC
SPEC ED UKSSR, KHAR'KOV ORDER OF LABOR RED BANNER STATE
UNIV IM A. M. GOR'KIY). (KL, 3-61, 204.).

YASHCHERITSYN, P.I., kand.tekhn.nauk; KOSACHEVSKIY, L.N., inzh.

Effect of some technological factors on the surface smoothness
and the durability of antifriction bearing balls. Mash.Bel.
no.4:132-137 '57. (MIRA 11:9)
(Ball bearings)



: 17.1350

21343
J4,1900 S/040/61/Q25/006/010/021
D299/D304

AUTHOR: Kosachevskiy, L.Ya. (Donetsk)

TITLE: On the reflection of sound waves by stratified
two-component materials

PERIODICAL: Prikladnaya matematika i mekhanika, v. 25, no. 6,
1961, 1076 - 1082

TEXT: The propagation of plane elastic (sound) waves in a porous material is considered by means of Biot's equations; the pores are filled with a compressible viscous fluid. General formulas are obtained for the coefficients of reflection and of transmission for any number of layers. The case of a single layer is investigated in more detail. Biot's equations yield (after transformation) for the case of monochromatic waves of frequency ω , the equations

$$\nabla^2 u_1 + k_1^2 u_1 = 0, \quad \nabla^2 u_3 + k_3^2 u_3 = 0 \quad (k_1^2 = \zeta_1 \left(\frac{\omega}{c}\right)^2, \quad k_3^2 = \zeta_3 \left(\frac{\omega}{c}\right)^2) \quad (1.6)$$

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On the reflection of sound waves ...

$$\begin{aligned} v_t &= M_t u_t, \quad \nabla^2 u_t + k_t^2 u_t = 0 \quad (1.7) \\ M_t &= \frac{-\gamma_1 + i\gamma}{\gamma_1 + i\gamma}, \quad k_t^2 = \frac{\rho_1 + M_t p_1}{\mu} \omega^2, \quad p_1 = p_{11} + p_{12}, \quad p_2 = p_{22} + p_{12} \end{aligned} \quad (1.7)$$

equations (1.6) describe longitudinal waves and Eq. (1.7) - transverse waves. Coefficients of reflection and transmission for any number of layers: The coefficients are determined by means of recursion formulas which connect the wave amplitudes in neighboring layers. The components of the stress tensor yield a matrix equation. After calculations, one obtains the formulas for the coefficients:

$$W = \frac{\varphi''}{\varphi'} = \frac{Z - Z^{(n+1)}}{Z + Z^{(n+1)}} \quad (2.9)$$

$$D = \frac{\rho^{(1)} \varphi''}{\rho^{(n+1)} \varphi'} = \frac{2(1 - m^{(n)} - m^{(n)} A_1)}{[(1 - m^{(n)}) A_2 + m^{(n)} A_3] Z^{(1)} - A_4} \frac{Z Z^{(1)}}{Z + Z^{(n+1)}} \quad (2.9)$$

where

$$\frac{1}{Z} = -(1 - m^{(n)} - m^{(n)} A_1) \frac{[(1 - m^{(n)}) B_2 + m^{(n)} B_3] Z^{(1)} - B_4}{[(1 - m^{(n)}) A_2 + m^{(n)} A_3] Z^{(1)} - A_4} - m^{(n)} B_1$$

$$(Z^{(1)} = \frac{\rho^{(1)} \omega}{\chi}, \quad Z^{(n+1)} = \frac{\rho^{(n+1)} \omega}{\nu})$$

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S/040/61/025/006/010/021

On the reflection of sound waves ... D299/D304

where Z can be regarded as the input impedance of the layer system, $Z^{(1)}$ and $Z^{(n+1)}$ - as the impedances of the liquid of the first, respectively $(n+1)$ -st layer, A and B are matrices,

$$\chi = \sqrt{(k^{(1)})^2 - \sigma^2},$$

m is the porosity, k - the permittivity. Reflection by single layer: Only the case of normal incidence is considered. Simplified formulas are obtained for the coefficients, as well as a formula for the impedance of the interface fluid-porous halfspace. Further, total reflection is considered. Neglecting fluid viscosity and solving the pertinent equation for parameter values adopted from Boot, one obtains the following values for the thickness of sound impenetrable layers d of various porosity m :

$$m = 0.5 \quad 0.6 \quad 0.7 \quad 0.8$$

$$d = 0.40\lambda_1 \quad 0.43\lambda_1 \quad 0.46\lambda_1 \quad 0.48\lambda_1$$

λ_1 denoting the wavelength of the longitudinal wave. Further, the equation for the thickness of a totally "transmittant" layer is de-

Card 3/4

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S/040/51/025/006/010/021
D299/D304

On the reflection of sound waves ...

rived; hence one obtains the thickness of a "transmittant" one-component layer: $d = 1/2 \lambda n$, i.e. it is equal to an integral number of half-waves. There are 2 figures and 9 references: 5 Soviet-bloc and 4 non-Soviet-bloc (including 2 translations). The references to the English-language publications read as follows: M.A. Biot, Theory of Propagation of Elastic waves in a Fluid-saturated Porous Solid. J. Acoust. Soc. Am., 1956, 28, no. 2; W.T. Thompson, Transmission of elastic waves through a stratified solid material. J. Appl. Phys., 1950, 21, no. 2.

4

SUBMITTED: April 3, 1961

Card 4/4

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S/040/62/026/005/005/016
D234/D308

AUTHOR: Kosachevskiy, L. Ya. (Donetsk)

TITLE: Reflection of magnetoacoustic waves

PERIODICAL: Prikladnaya matematika i mehanika, v. 26, no. 5, 1962,
843-847

TEXT: The author considers the reflection from a plane boundary dividing a liquid and an elastic medium, both having infinite electric conductivity. Two cases are treated. 1) A fast magnetoacoustic wave travelling in the liquid towards the boundary, 2) a fast magnetoelastic wave travelling in the elastic medium. Formulas are derived for the amplitude coefficients of refraction and reflection in both cases. The effect of a magnetic field on surface waves is studied. Surface waves are obtained by making the reflection coefficient tend to ∞ , the density of the liquid medium is made equal to 0 and the magnetic field is assumed to be weak. It is found that the surface wave is not damped only when the magnetic field is parallel or perpendicular to the boundary. The damping in other cases

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Reflection of magnetoacoustic ...

S/040/62/026/005/005/016

D234/D308

is explained by the fact that an electromagnetic wave is excited, which carries away a part of the energy. The velocity of the surface wave increases when the magnetic field is parallel to the boundary and remains practically unchanged when it is perpendicular. The author expresses his gratitude to K. P. Stanyukovich for having suggested the subject of the paper. There are 2 figures.

Reference: 1959
SUBMITTED: March 17, 1962

Card 2/2

S/040/63/027/002/014/0*9
D251/D308

AUTHOR: Kosachevskiy, L. Ya. (Donetsk)

TITLE: Lateral waves in a two-component medium

PERIODICAL: Prikladnaya matematika i mehanika, v. 27, no. 2,
1963, 358-361

TEXT: The author considers the potential of lateral waves caused by the reflection of spherical sound waves from a plane boundary of separation of a fluid and a two-component medium, which is considered to be homogeneous and isotropic. The potential of the reflected wave is taken from the work of L. M. Brekhovskiy (Volny v sloistykh sredakh (Waves in stratified media), AN SSSR, 1957). Using Hankel functions and the complex plane (suitably cut) the potentials of the first and second lateral waves are found to be

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Lateral waves in ...

S/040/63/027/002/014/019
D251/D308

$$\varphi_1 = - \frac{2im_1 n_1 \exp [ik_o R_1 \cos (\delta_1 - \theta_o)]}{k_o \sqrt{r \cos \delta_1} [1 + m_2 \sqrt{(n_2^2 - n_1^2)/(1 - n_1^2)}]^2 [R_1 \sin(\theta_o - \delta_1)]^{3/2}} \quad (10)$$

$$\varphi_2 = - \frac{2im_2 n_2 \exp [ik_o R_1 \cos (\delta_2 - \theta_o)]}{k_o \sqrt{r \cos \delta_2} [1 + m_1 \sqrt{(n_1^2 - n_2^2)/(1 - n_2^2)}]^2 [R_1 \sin(\theta_o - \delta_2)]^{3/2}} \quad (11)$$

where the parameters of the problem are as shown in

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YEVGENIY, M.P.

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